



Parametric identification of a heating mobile source in a three dimensional geometry

Submitted by Marie-Françoise... on Wed, 12/10/2014 - 11:06

Titre	Parametric identification of a heating mobile source in a three dimensional geometry
Type de publication	Article de revue
Auteur	Beddiaf, Sara [1], Perez, Laetitia [2], Autrique, Laurent [3], Jolly, Jean-Claude [4]
Editeur	Taylor & Francis
Type	Article scientifique dans une revue à comité de lecture
Année	2015
Langue	Anglais
Numéro	1
Pagination	93-111
Volume	23
Titre de la revue	Inverse Problems in Science and Engineering
ISSN	1741-5977
Résumé en anglais	The resolution of an inverse problem of heat conduction in a three-dimensional plate using an iterative regularization method based on Alifanov's iterative regularization method is investigated. Considering temperature observation on the upper face centre of a small thin steel plate, the time dependent strength of a plane heat source has to be identified. Two configurations are studied. For the first one, the heat source is fixed on the lower face centre. For the second one, the heat source is mobile and the trajectory is assumed to be known. For both situations, robustness of the approach is stated considering noisy measurements.
URL de la notice	http://okina.univ-angers.fr/publications/ua5802 [5]
DOI	10.1080/17415977.2014.890608 [6]
Lien vers le document	http://dx.doi.org/10.1080/17415977.2014.890608 [6]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=2236](http://okina.univ-angers.fr/publications?f[author]=2236)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=1862](http://okina.univ-angers.fr/publications?f[author]=1862)
- [3] <http://okina.univ-angers.fr/l.autrique/publications>
- [4] <http://okina.univ-angers.fr/jeanclaude.jolly/publications>
- [5] <http://okina.univ-angers.fr/publications/ua5802>
- [6] <http://dx.doi.org/10.1080/17415977.2014.890608>

Publié sur *Okina* (<http://okina.univ-angers.fr>)